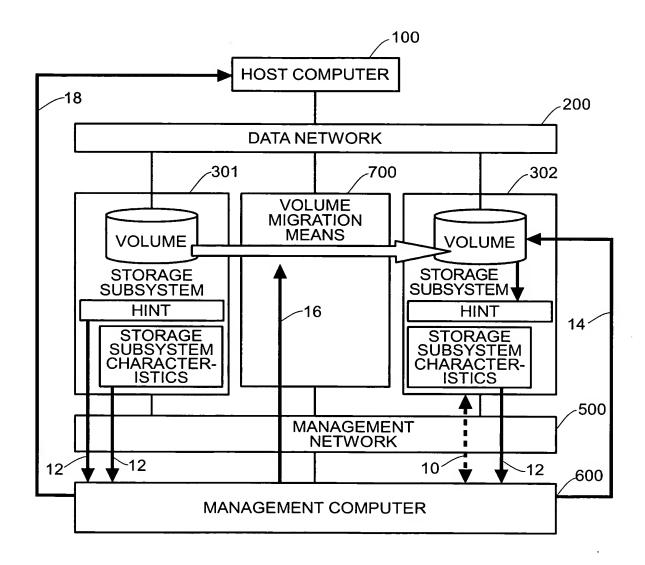
FIG.1

ι A



ejo +

FIG.3

VOLUME ALLOCATION REQUEST		
CAPACITY		
AccessBandwidthHint		
StorageCostHint		
DataAvailabilityHint		

FIG.4A

_326

Hint	Access Bandwidth	Storage Cost	Data Availability
0	Don't Care	Don't Care	Don't Care
1	1Gbps	1 ¢ /MB	99.9%
2	1Gbps	1 ¢ /MB	99.9%
3	1Gbps	1 ¢ /MB	99.9%
4	1Gbps	1 ¢ /MB	99.9%
5	1Gbps	1 ¢ /MB	99.9%
6	2Gbps	1 ¢ /MB	99.9%
7	2Gbps	1 ¢ /MB	99.9%
8	2Gbps	1 ¢ /MB	99.9%
9	2Gbps	1 ¢ /MB	99.9%
10	2Gbps	1 ¢ /MB	99.9%

FIG.4B

_327

Hint	Access Bandwidth	Storage Cost	Data Availability
0	Don't Care	Don't Care	Don't Care
1	1Gbps	2¢/MB	99.999%
2	1Gbps	2¢/MB	99.999%
3	1Gbps	2 ¢ /MB	99.999%
4	1Gbps	2¢/MB	99.999%
5	1Gbps	2¢/MB	99.999%
6	2Gbps	2¢/MB	99.999%
7	2Gbps	2¢/MB	99.999%
8	2Gbps	2¢/MB	99.999%
9	10Gbps	2 ¢ /MB	99.999%
10	10Gbps	2¢/MB	99.999%

FIG.5A

ABH: AccessBandwidthHint

SCH: StorageCostHint DAH: DataAvailabilityHint

VOLUME FC NUMBER NUM	FC I/F	CAPACITY	BANDWIDTH	VOLUME HINT INFORMATION		
NUMBER	NUMBER NUMBER			ABH	SCH	DAH
3412	3714	200GB	2Gbps	10	0	10
					-	

FIG.5B

383

383

VOLUME	VOLUME FC I/F CAPACITY	UME FC I/F CAPACITY BANDWIDTH	VOLUME HINT INFORMATION			
NUMBER				ABH	SCH	DAH
3412	3714	200GB	2Gbps	10	0	10
3411	3711	200GB	1Gbps	1	10	0

FIG.5C

383

VOLUME	FC I/F NUMBER	CAPACITY	TY BANDWIDTH		VOLUME INFORM	
NUMBER				ABH	SCH	DAH
3411	3711	200GB	1Gbps	1	10	0

FIG.6A

115

DRIVE LETTER	FC INTERFACE NUMBER	VOLUME NUMBER	MIGRATION FLAG
С	3714	3412	0
	·		

FIG.6B

115

DRIVE LETTER	FC INTERFACE NUMBER	VOLUME NUMBER	MIGRATION FLAG
С	3714	3412	0
D	3711	3411	0

FIG.6C

-115

DRIVE LETTER	FC INTERFACE NUMBER	VOLUME NUMBER	MIGRATION FLAG
С	3714	3412	1
D	3711	3411	0

FIG.6D

_115

DRIVE LETTER	FC INTERFACE NUMBER	VOLUME NUMBER	MIGRATION FLAG
С	3727	3429	0
D	3711	3411	0
		-	

FIG.7A

ABH: AccessBandwidthHint

SCH: StorageCostHint

DAH:	DataAvailabilityHint

VOLUME FC I/F CAPACITY	CITY BANDWIDTH	VOLUME HINT INFORMATION				
NOWBER	NOMBER		ABH	SCH	DAH	

FIG.7B

384

384

VOLUME	OLUME FC I/F CAPACITY BAN		BANDWIDTH		VOLUME INFORM	
NOMBER	INOMBER	0, , 10111		ABH	SCH	DAH
3429	3727	200GB	10Gbps	10	0	10
		-				

816 810 818 812 -820 AVAILABILITY
ORIORITIZE LOW COSTS
PRIORITIZE ACCESS
BANDWIDTH ONLY PRIORITIZE ACCESS BANDWIDTH AND HIGH PRIORITIZE ACCESS SETTINGS SCREEN FOR CREATING VOLUME BANDWIDTH AND HIGH AVAILABILITY FIG.8B AccessBandWidthHint 100 200 **2000** STORAGE SUBSYSTEM COMPUTER CAPACITY VOLUME POLICY 810 -812 818 -820 -824 830 822 CREATE 9 0 SETTINGS SCREEN FOR CREATING VOLUME **AccessBandWidthHint DataAvailabilityHint** 100 FIG.8A 200 301 StorageCostHint STORAGE SUBSYSTEM COMPUTER CAPACITY HOST 800 HNH

822

-824

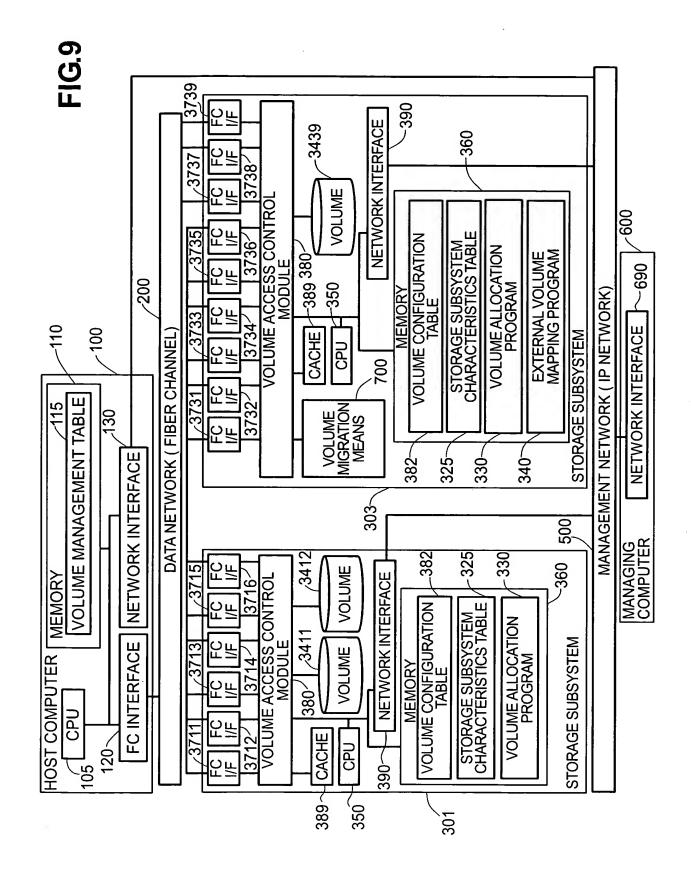
DataAvailabilityHint

StorageCostHint

HINT

830

CREATE



•

ABH: AccessBandwidthHint SCH: StorageCostHint DAH: DataAvailabilityHint

385

Σ				
EXTERNAL STORAGE SUBSYSTEM	VOLUME NUMBER	3412	3411	
EX STORAG	ABH SCH DAH FC I/F	10 3714	3711	
E ATION	ран	10	0	
OLUME FORM	SCH	0	10	
VOLUME HINT INFORMATION	АВН	10	1	
CAPACITY BANDWIDTH		2Gbps	1Gbps	
CAPACITY		200GB	200GB	
FC I/F NUMBER		3738	3737	-385
VOLUME NUMBER IN		3432	3431	

FIG.10A

	_			
EXTERNAL STORAGE SUBSYSTEM	VOLUME	3412	3411	0
EX STORAGI	ABH SCH DAH FC I/F	3714	3711	0
ATION	DAH	10	0	10
VOLUME HINT INFORMATION	sсн	0	10	0
> E	АВН	10	1	10
CAPACITY BANDWIDTH		2Gbps	1Gbps	10Gbps
CAPACITY		200GB	200GB	200GB
FC I/F NUMBER		3738	3737	0
VOLUME NUMBER I		3432	3431	3439

FIG.10B

VOLUME	4/I O.4			NI TNIH	VOLUME HINT INFORMATION	E ATION	EX STORAG	EXTERNAL STORAGE SUBSYSTEM
NUMBER	NUMBER	CAPACIIY	NUMBER NUMBER CAPACIIY BANDWIDIH	АВН	всн	DAH	ABH SCH DAH NUMBER	VOLUME NUMBER
3431	3737	200GB	1Gbps	1	10	0	3711	3411
3432	3738	200GB	10Gbps	10	0	10	0	0

FIG.10C

385

FIG.11

_115

DRIVE LETTER	FC INTERFACE NUMBER	VOLUME NUMBER	MIGRATION FLAG
С	3738	3432	0
D	3737	3431	0
			-

FIG.12

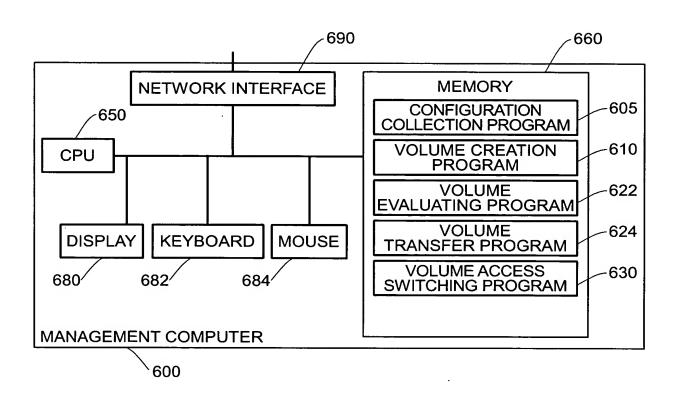


FIG.13

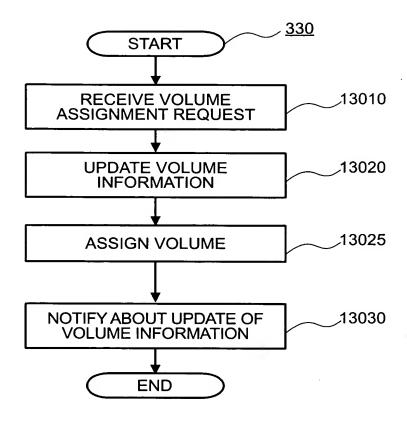


FIG.14

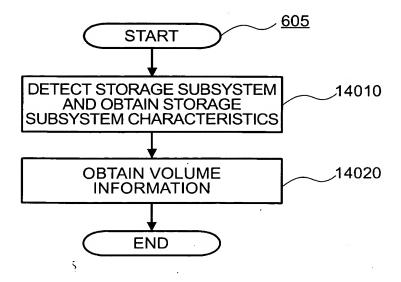
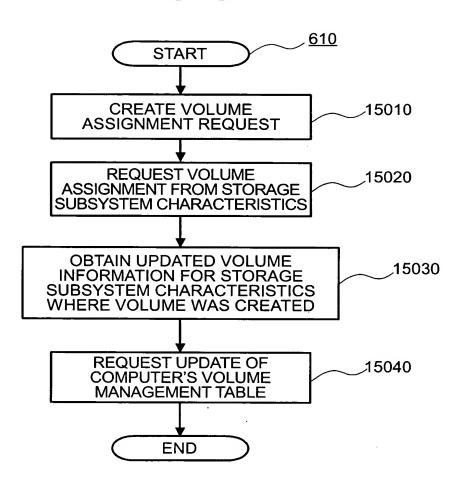
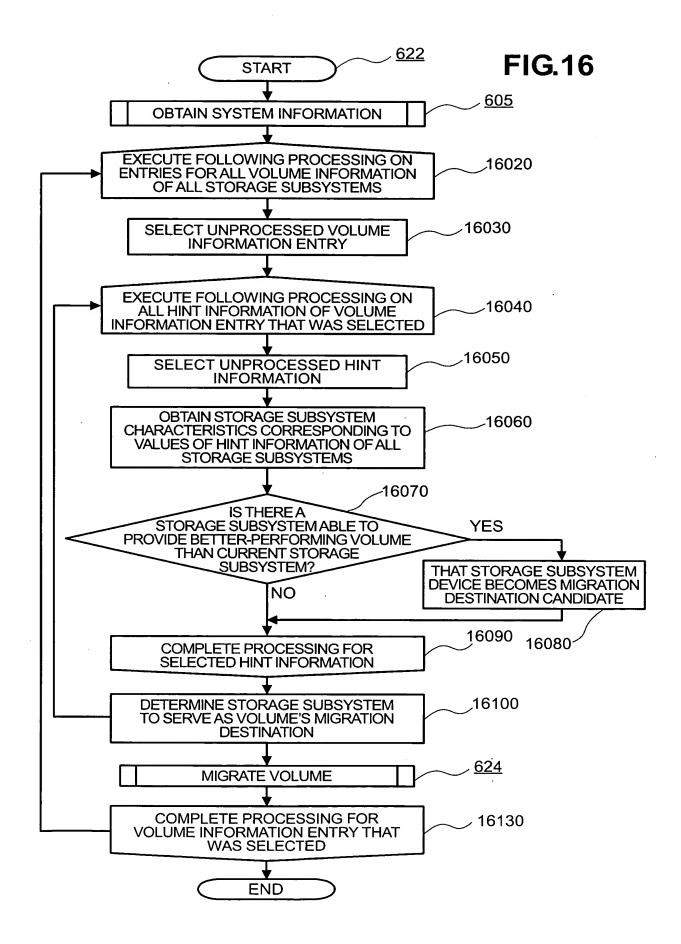


FIG.15





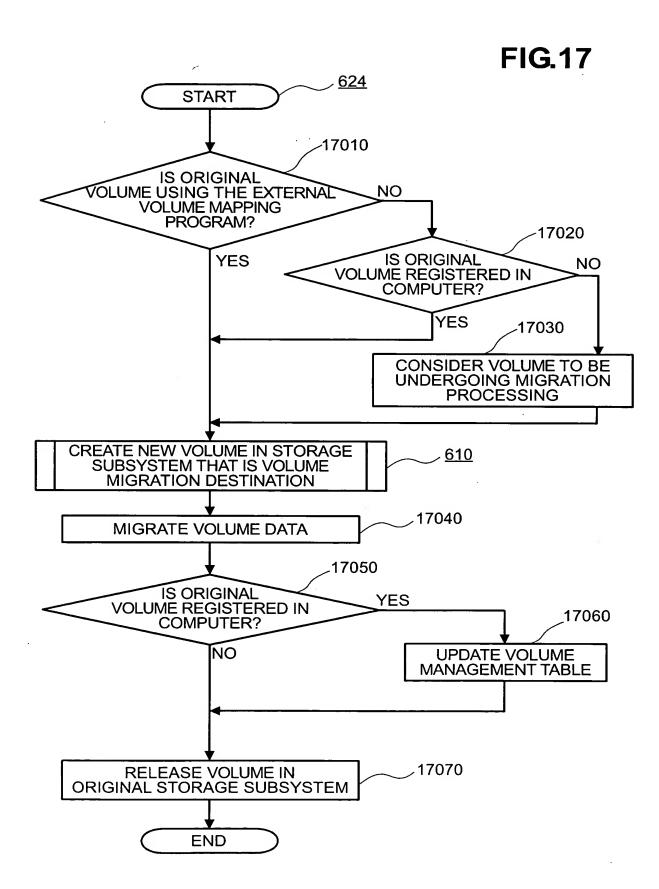


FIG.18

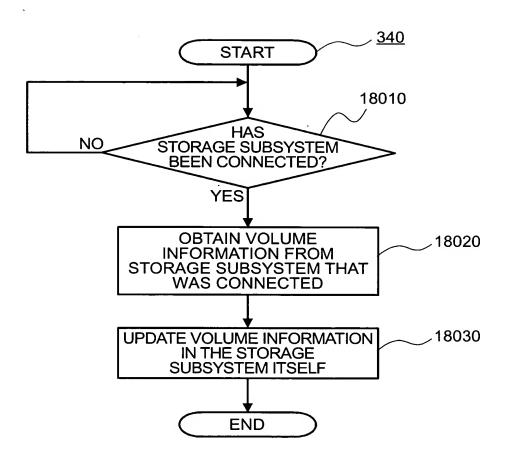


FIG.19

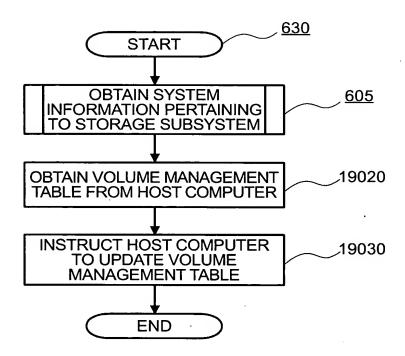


FIG.20

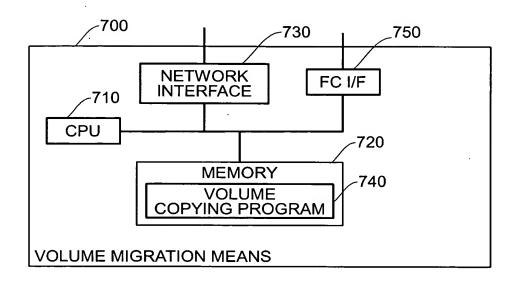


FIG.21

